

GRADE 4 LEARNING PACK

Geometry: Angles, Symmetry & Transformation

Describe and classify shapes using properties, recognise angle size and explore symmetry/transformations.

LEARN • PRACTISE • CREATE • REFLECT

Original BrightPencil Kids resource - adult-led where appropriate

A4 edition • 12 purposeful pages • review copy

Print. Learn. Grow.

Grown-up guide

Learning objective

Describe and classify shapes using properties, recognise angle size and explore symmetry/transformations.

Use this pack well

- Model the first example aloud, then let the learner try.
- Ask “How do you know?” more often than “Are you finished?”.
- Use real objects, talk, movement or observation when the activity suggests it.
- Stop or shorten the session if attention or enjoyment drops.
- Open-ended pages can have many successful answers.

Quality note

This resource was written originally for BrightPencil Kids. Curriculum sources informed scope and progression only; no third-party worksheet or story text is reproduced.

Learn the idea

1 Shapes can be classified by properties rather than appearance alone.

2 A right angle is a useful benchmark for comparing angles.

3 Reflection, rotation and translation move shapes in different ways.

Talk about it

Explain one idea in your own words. Give an example from real life, a drawing or an object if that helps.

Classify quadrilaterals using side and angle properties.

Identify angles smaller than, equal to or larger than a right angle.

Complete a reflection across a grid line.

Describe a quarter-turn rotation.

Explain why a square can belong to more than one shape category.

Try it beyond the page

Real-world / hands-on connection

Look for right angles, parallel-looking lines and symmetry in a room or building with an adult.

Before you finish

What did you notice?

What evidence, object or example helped you?

What would you change if you tried again?

Create something

Your project

Create a geometric logo using one reflection and one rotation; label the transformations.

Use this space for planning, drawing, mapping, designing or notes.

CHALLENGE

Think deeper

1. Can a square also be a rectangle under property-based definitions?

2. What is a translation?

3. What benchmark helps compare angle size?

Quick review

1. In one sentence, explain the big idea of “Geometry: Angles, Symmetry & Transformation”.

2. Draw or write one example that shows you understand.

3. Choose one activity from this pack and explain the strategy you used.

4. Write one question you still have.

Answer & discussion notes

Use these as guidance, not scripts. Open questions can have different successful responses when the reasoning is sensible and evidence-based.

1. Suggested response

Yes.

2. Suggested response

A slide without turning or flipping.

3. Suggested response

A right angle.

Review before publication

Check age fit, factual accuracy, clarity, accessibility, rights provenance and whether the activity works in practice. This file remains a review copy until those checks are signed off.

FINISH

My learning reflection

I finished this BrightPencil learning pack.

One thing I understand better now:

A strategy that helped me:

Something I created or noticed:

My next small question or goal:

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